

Patent Abstracts of Japan

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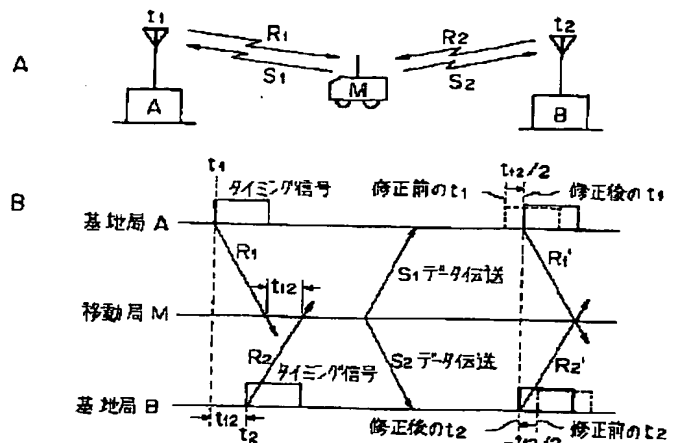
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TITLE : MOBILE COMMUNICATION SYSTEM  
BASE STATION SYNCHRONIZING  
METHOD



ABSTRACT : PURPOSE: To easily establish frame timing synchronization between base stations in a mobile communication system, based upon autonomous decentralized control, without requiring any special facilities.

CONSTITUTION: A mobile machine M interposed in the middle between the base stations A and B receives both a sent wave R<sub>1</sub> sent from the base station A at the time t<sub>1</sub> and a sent wave R<sub>2</sub> sent from the base station B at the time t<sub>2</sub>, detects the reception timing difference t<sub>12</sub> of R<sub>2</sub> from R<sub>1</sub>, and sends the timing difference t<sub>12</sub> to the base stations A and B through radio lines S<sub>1</sub> and S<sub>2</sub>. The base station A delays the transmission timing of a sent signal R<sub>1</sub>' by μt<sub>12</sub> and the base station B advances the transmission timing of a sent signal R<sub>2</sub>' by μt<sub>12</sub>, where μ is a positive value.

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